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10/573,418	03/27/2006	Takeshi Iwatsu	286664US6PCT	2799

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EXAMINER
TRUONG, DENNIS

ART UNIT	PAPER NUMBER
2169	

NOTIFICATION DATE	DELIVERY MODE
08/18/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _13 July 2010_.
2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-7 and 9-19_ is/are pending in the application.
　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) _1-7 and 9-19_ is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☒ The drawing(s) filed on _27 March 2006_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.
　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
　　a)☒ All   b)☐ Some * c)☐ None of:
　　　1.☒ Certified copies of the priority documents have been received.
　　　2.☐ Certified copies of the priority documents have been received in Application No. _____.
　　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
　　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
　　Paper No(s)/Mail Date _7/26/2010_.

4) ☐ Interview Summary (PTO-413)
　　Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____ .

DETAILED ACTION

1.   The request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 07/13/2010 has been entered.

Response to Amendment

2.   It is acknowledged that claims 1, 3, 4, 6, 7, 9, 12, 13, 14, 17 have been amended. Claims 8

have been canceled. Claims 18 and 19 have been added.

3.   Claims 1- 7, 9-19 are pending.

4.   IDS filed 7/26/2010 has been considered.

Response to Arguments

5.   Applicant's arguments with respect amended claims 1, 12-14 have been fully considered but

are moot in view of new ground(s) of rejection.

Claim Rejections - 35 USC § 103

6.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

7.   Claims 1-14 rejected under 35 U.S.C. 103(a) as being unpatentable over **Craig et al. (US**

6757708 B1) (herein referenced as **Craig)** in view of **Tso et al. (US 6681298 B1) (**herein

referenced as **Tso**) further in view of **Ortega et al. ("Soft Caching:Web Cache Management**

Techniques for Images) (herein referenced as **Ortega**) and **O'Rourke et al. (US 6986018 B2).**

As per claim 1, Craig discloses:

- **means for transmitting a request for page information**, at least by (col. 11 lines 16-

    17, Fig. 4) "A request 405 for dynamic generated content is received at Web server 410",

    where the request and receiving of the content is transmitting, and the web server is the

    external apparatus.

- **means for receiving said page information, which includes identification**

    information corresponding to content data, from an external apparatus in response

    to the request, and for receiving said content data, the identification information

    identifying a vendor, at least by (col. 11 lines 17-21) where it is disclosed that the

    received request via HTTP is forwarded to a web application server that supports JSPs

    and servlets, then the "request is then passed to a servlet 420 corresponding to the

    invoked JSP, where this servlet 420 uses a bean 425". It is known in the art and further

    disclosed in (col. 12-13) that beans refers to the dynamic content that is generated and the

    status of the beans by the methods defined within the bean so the disclosed bean and the

    methods related to versions ("serialVersionUID") and cashed information ("amICached")

    bean etc., are the identification information corresponding to the content data. And in

    Fig. 4 ref 420 shows that the servlet is in the external apparatus 400.3

- **storing means for storing said content data received by said means for receiving,**

    based on said identification information independently of said page information, at

    least by (fig. 6-9) discloses the process of caching based on the condition of the bean and

whether it has been cached or out of date. This is done independently of the page

information because the "executed methods" pertaining to the identification information

are defined within the bean.

- **means for outputting the said content data along with said page information**, at least

   by (Fig. 3A ref. 310b, col. 9 lines 38-40) "FIG. 3B shows that the JSP 355 sets and gets

   360, 361 information from each bean 365, 366, where this information may be a result of

   the bean retrieving 370, 371 information from the data store 375, 376. Once the

   dynamically generated response is complete, it is returned 310b from the JSP 355 to the

   browser 305."

- **and for removing all files except for files of the vendor, at least by (col. 5 lines 60-61)**

   "At step 376, control deletes the web page with the lowest removal factor" by

   designating a low removal factor to web pages that are not from a particular vendor, the

   files from the vendor are kept and those that are not are removed.

- **But Craig fails to specifically disclose:**

   o **(a) control means for detecting whether said storing means is storing content**

      data independently of said page information

   o **(b) and for controlling said means for outputting to output said content data**

      without an inquiry to the external apparatus when said control means detects

      that storing said means is storing said content data.

   o **(c) for controlling said means for receiving to receive by said content data**

      from the external apparatus when said content data is not stored in said

      storing means.

       ○ **(d) and the identification information identifying a vendor and for removing all files except for files of the vendor**

However, **Ortega** teaches the above limitations **(a) (b) and (c)** at least by (page 476) "cache by temporarily storing on local disk or memory, objects which were requested by the clients…the proxy searches its local storage for the requested object. if the object is available locally (hit) it is sent to the client, otherwise (miss) the request is passed on to the remote server", where the object is further disclosed as images which is an object being cached separate from the rest of the content (page 477), and since the cache is on a local disk it does not require any inquiries via the network.

Furthermore, **O'Rourke** teaches the above limitations **(d)** at least by (col. 7 lines 58-61) "the cache policy may dictate that the cache server can only cache content from specific origin servers (e.g., origin servers owned by a particular company or organization". This shows that the cache policy can identify a particular company or organization to cache content from where the company or organization is a vendor and Further **Tso** disclose at least by (col. 5 lines 60-61) "At step 376, control deletes the web page with the lowest removal factor" by designating a low removal factor to web pages that are not from a particular vendor, the files from the vendor are kept and those that are not are removed" Therefore by modifying Tso system to recognize a particular vendor, the system can choose to keep only those files from the vendor when removing files by indicating a the highest removal factor which allows deletion of files not from a designated vendor.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ortega, O'Rourke and Tso** into the teaching

of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to cache memory intensive content of a specific vendor locally for quicker retrieval and relieves the load at the server.

As per claim 2, claim 14 is incorporated and further Craig discloses:

- **wherein said controller is configured to store in said memory the content data**, at least by (Fig. 6 ref 600) and further (Fig. 4 ref 430) is claimed memory.

As per claim 3, claim 2 is incorporated and further Craig fails to specifically disclose:

- **wherein the content data is an image data and the page information define a portal site.**

However, **Ortega** teaches the above limitations at least by (page 477) where the object is further disclosed as images.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ortega** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of being able to cache media that requires more bandwidth and resources for improved browsing and accessibility.

As per claim 4, claim 2 is incorporated and further Craig fails to specifically disclose:

- **wherein the content data is sound data and the page information defines a portal site.**

However, **Tso** teaches the above limitations at least by (col. 3 lines 62-63), as "Cache items include web pages or HTML documents that include HTML text plus images**, audio.**"

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the

invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the

ordinary skill in the art would have been motivated to use such a modification for the purpose of

being able to cache media that requires more bandwidth and resources for improved browsing

and accessibility.

As per claim 5, claim 14 is incorporated and further Craig fails to specifically disclose:

- **wherein said controller is configured to count a number of times the content data**

    had been reproduced, and said controller is configured to store in said memory the

    content data, which has been accessed more than a certain number of times.

However, **Tso** teaches the above limitations at least by (Fig. 7A, Ref. 410) shows the cache

with a count of number "times used."

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the

invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the

ordinary skill in the art would have been motivated to use such a modification for the purpose of

filtering out the least viewed content to optimize the usage of memory and resources.

As per claim 6, claim 14 is incorporated and further Craig fails to specifically disclose:

- **wherein sid controller is configured to count the number of time the content has**

    been reproduced, and said controller if configured to remove from said storage

    means memory the content data, based on the number of times,

However, **Tso** teaches the above limitations at least by (Fig. 7E illustrates a table contains

values that are substituted for the "TimesUsed" column values when calculating the removal

factors), by using "TimesUsed" and its equivalent values in table 7E to determine the removal

factor Craig clearly shows that the number of times used is factored into how the content is removed.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to define a preference in what the user wants cached which allows more freedom and customization in how the memory and resources should be used.

As per claim 7, claim 6 is incorporated and further Craig fails to specifically disclose:

- **wherein said controller is configured to register in said memory an indicator showing an importance of said content data, and to prevent said content data from being removed from said memory based on said indicator of said content data regardless of a number of times access of said content data.**

However, **Tso** teaches the above limitations at least by (col. 5 lines 4-5) as "control deletes the web page with the lowest removal factor and returns to step 252" where removal factor is based on (col. 7 lines 65 – col. 8 lines 3) "function F that depends on one or more of the usage and/or data type factors for each cache item" where because the removal factor is based on one or more of the usage and/or data type the removal of the item can be prevented regardless of the number of times of the page accessed.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of

allowing the ability to define a preference in what the user wants cached which allows more

freedom and customization in how the memory and resources should be used.

As per claim 8, canceled.

As per claim 9, claim 14 is incorporated and further Craig fails to specifically disclose:

- **wherein, when said controller receives the content data in the compressed format with a predetermined attribute, said controller registers in said means memory said content data in uncompressed format.**

However, **Tso** teaches the above limitations at least by (col. 6 lines 23-24), as "indicates

whether the cache item is compressed ("C") or decompressed ("D")," where ("C") and ("D") are

claimed attribute.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the

invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the

ordinary skill in the art would have been motivated to use such a modification for the purpose of

storing the content is its original form which then improves the content retrieval time.

As per claim 10, claim 14 is incorporated and further Craig fails to specifically disclose:

- **wherein said controller reproduces the content data, and said controller is further configured to convert the content data into a compression format corresponding to characteristics of said controller, and to then register said content data in said memory.**

However, **Tso** teaches the above limitations at least by (col. 4 lines 29), as "control continues

with step 212. Control outputs the web page to the display 30 and continues with step 204" and

(col. 4 lines 44-45) as ," control stores the web page in cache and outputs the web page to the

display 30 in step 256" show reproducing stored content and (col. 6 lines 23-24), as "indicates

whether the cache item is compressed ("C") or decompressed ("D") show the ability to

reproduce compressed data.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the

invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the

ordinary skill in the art would have been motivated to use such a modification for the purpose of

optimizing the storage space by storing the compressed data.

As per claim 11, claim 14 is incorporated and further Craig discloses:

- **wherein the page information includes said a Uniform Resource Locator (URL),** at

    least by (Fig. 4 Ref. 405) it should be understood the an HTTP req includes a url. And at

    least by (col. 11 lines 17-21) where it is disclosed that the received request via HTTP is

    forwarded to a web application server that supports JSPs and servlets, then the "request is

    then passed to a servlet 420 corresponding to the invoked JSP, where this servlet 420 uses

    a bean 425", where the bean is the content data being requested.

- **and said controller is configured to access, when the content data c is not stored in

    said memory, said URL to acquire said content data from said external apparatus,**

    at least by (Fig. 7 Ref 715 and 725) shows the instance where the bean is not cached the

    "CS returns NULL to EM" which lead to the determination of caching in (Fig.9).

Claim 12 is an information reproduction method corresponding to the apparatus claim 1, and is

rejected under the same reason set forth in connection to rejection of claim 1 above.

Claim 13 is a program product claim corresponding to the apparatus claim 1, and is rejected

under the same reason set forth in connection to rejection of claim 1 above. Where **Craig** further

discloses the program product stored upon a computer readable medium to be processed, at least

by (Claim 35).

Claim 14 is an information reproduction apparatus corresponding to the apparatus claim 1, and

is rejected under the same reason set forth in connection to rejection of claim 1 above. Where

Craig further discloses the apparatus as (Fig. 1 and Fig. 2) which is used to provide the means

that has been disclosed in claim 1.

As per claim 15, claim 16 is incorporated and further Craig and Tso fails to specifically

disclose:

- **the interface includes a display of predetermined dimensions, and the second size is**

   based on the predetermined dimensions of the display.

However **Ortega** teaches the above limitation"…(page 477) "cache management task consist

of determining both which images to maintain in the cache and the level of resolution at which

they should be stored", which shows that a different resolution can be stored which is the second

sized claimed.

As per claim 16, claim 14 is incorporated and further Craig and Tso fails to specifically

disclose:

- **the information processing apparatus according to claim 14, wherein the controller**

   is configured to translate the content data from a first format and first size to a

   second format and a second size based on a characteristic of the interface.

However **Ortega** teaches the above limitation"…(page 477) "cache management task consist

of determining both which images to maintain in the cache and the level of resolution at which

they should be stored…(page 479) global storage limits for the set of N images will mean that a

lower resolution image may have to be stored", which shows that a different resolution can be stored which is the second sized claimed dependent on the local storage limitations.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ortega** into the teaching of **Craig and Tso** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose allowing clients to retrieve data from data sources that do not necessarily support the same formats as the clients which improves the accessibility between less-conventional clients and the internet.

As per claim 17, claim 14 is incorporated and further Craig fails to specifically disclose:

- **wherein the controller is configured to decompress said content data, based on the vendor.**

However, **Tso** teaches the above limitations at least by (col. 4 lines 29), as "control continues with step 212. Control outputs the web page to the display 30 and continues with step 204" and (col. 4 lines 44-45) as ," control stores the web page in cache and outputs the web page to the display 30 in step 256" show reproducing stored content and (col. 6 lines 23-24), as "indicates whether the cache item is compressed ("C") or decompressed ("D") show the ability to reproduce compressed data.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of optimizing the storage space by storing the compressed data.

As per claim 18, claim 14 is incorporated and further Craig fails to specifically disclose:

- wherin the controller is further configured to register in said memory said content

data in an uncompressed format upon a reception from said external apparatus of said

content data in a compressed format.

However, **Tso** teaches the above limitations at least by (col. 6 lines 23-24), as "indicates

whether the cache item is compressed ("C") or decompressed ("D")" which show the ability to

cache items in a decompressed form.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the

invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the

ordinary skill in the art would have been motivated to use such a modification for the purpose of

fully utilizing the storage space by providing flexibility in how the content can be stored..

As per claim 19, claim 14 is incorporated and further Craig fails to specifically disclose:

- **wherein, when the number of files caches in the memory exceeds a**

predetermined threshold, the controller removes all files form the memory

except for the files of the vendor.

However, **O'Rourke** teaches the above limitations at least by (col. 7 lines 58-61) "the cache

policy may dictate that the cache server can only cache content from specific origin servers (e.g.,

origin servers owned by a particular company or organization". This shows that the cache policy

can identify a particular company or organization to cache content from where the company or

organization is a vendor and further **Tso** disclose in (col. 5 lines 60-61) "At step 376, control

deletes the web page with the lowest removal factor" by designating a low removal factor to web

pages that are not from a particular vendor, the files from the vendor are kept and those that are

not are removed". Therefore by modifying Tso system to recognize a particular vendor, the

system can choose to keep only those files from the vendor when removing files by indicating a

the highest removal factor which allows deletion of files not from a designated vendor.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of

the invention made to incorporate the teaching of **O'Rourke and Tso** into the teaching of **Craig**

because one of the ordinary skill in the art would have been motivated to use such a modification

for the purpose of allowing the ability to cache memory intensive content of a specific vendor

locally for quicker retrieval and relieves the load at the server.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DENNIS TRUONG whose telephone number is (571)270-3157.

The examiner can normally be reached on MON - FRI: 7:30 - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mahmoudi Tony can be reached on (571) 272-4078. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dennis Truong/
Examiner, Art Unit 2169

/Greta L. Robinson/

Primary Examiner, Art Unit 2169